



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Township of Haverford Delaware County Pennsylvania	BRIDGE CHANNELIZATION	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 420417		
IDENTIFIER	Revisions to Base Map of Naylor's Run at Quarry Site	APPROXIMATE LATITUDE AND LONGITUDE: 39.968, -75.299 SOURCE: Precision Mapping Streets DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 42045C0108F DATE: November 18, 2009 TYPE: FIRM* NO.: 42045C0106F DATE: November 18, 2009		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 18, 2009 PROFILE: 90P SUMMARY OF DISCHARGES TABLE: 5 FLOODWAY DATA TABLE: 9	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCE & REVISED REACH

Naylor's Run - from just upstream of the Township Line Road to approximately 1,280 feet upstream of The Township Line Road.

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Naylor's Run	Zone A	Zone AE	YES	YES
	No BFEs*	BFEs*	YES	NONE
	Zone A	Zone A	NONE	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. Additional information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

Jonathan E. Westcott, P.E., Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Eugene K. Gruber
Director, Mitigation Division
Federal Emergency Management Agency, Region III
One Independence Mall, Sixth Floor
615 Chestnut Street
Philadelphia, PA 19106-4404
(215) 931-5512

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

PUBLIC NOTIFICATION OF REVISION

PUBLIC NOTIFICATION

FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NAVD 88)		MAP PANEL NUMBERS
		EFFECTIVE	REVISED	
Naylors Run	Just upstream of Township Line Road	None	203	42045C0108F
	Approximately 1,210 feet upstream of the Township Line Road	None	213	42045C0106F

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised BFEs presented in this LOMR may be changed.

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below. Please refer to FEMA's Web site at https://www.floodmaps.fema.gov/fhm/Scripts/bfe_main.asp for a more detailed description of proposed BFE changes, which will be posted approximately within a week of the date of this letter.

LOCAL NEWSPAPER Name: *The Daily Times*
Dates: 07/05/2011 and 07/12/2011

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TABLE 5- SUMMARY OF DISCHARGES-continued

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. miles)</u>	<u>PEAK DISCHARGES (cubic feet per second)</u>			
		<u>10-Percent- Annual- Chance</u>	<u>2-Percent- Annual- Chance</u>	<u>1-Percent Annual- Chance</u>	<u>0.2-Percent- Annual- Chance</u>
NAYLORS RUN (continued)					
Approximately 290 feet downstream of U.S. Route 13 bypass	2.8	880	1,550	2,000	3,400
Approximately 370 feet, upstream of Bond Avenue	2.6	880	1,550	2,000	3,400
At Township Line Road	1.8	*	*	1,395	*
At West Chester Pike	1.1	410	720	920	1,520
OLD BARN DRIVE TRIBUTARY					
At confluence with West Branch Chester Creek	0.3	20	150	300	1,550
PONY TAIL RUN					
At confluence with Ridley Creek	0.4	270	360	390	450
RIDLEY CREEK					
At confluence with the Delaware River	38.2	3,700	7,200	9,500	17,400
Approximately 1,000 feet upstream of Chester Park Drive	35.6	3,600	7,100	9,400	17,200
At USGS gaging station No. 4765 at Fox Bank Bridge at Moylan, Pennsylvania	31.9	3,400	6,700	8,800	16,100
Aproximately 0.4 mile downstream of Delchester Road	18.5	2,820	4,800	5,800	8,600
ROCKY RUN					
At confluence with Chester Creek	1.5	560	1,100	1,400	2,250

REVISED
DATA

*Data not available

REVISED TO
REFLECT LOMR
EFFECTIVE: November 9, 2011

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Naaman Creek								
A	6,850 ¹	180	1,454	2.0	42.7	42.7	42.7	0.0
B	7,625 ¹	214	2,060	6.2	43.3	43.3	43.3	0.0
C	8,950 ¹	120	1,398	2.2	49.8	49.8	50.5	0.7
D	10,330 ¹	104	697	4.4	50.7	50.7	51.4	0.7
E	11,950 ¹	95	732	4.2	58.5	58.5	58.8	0.3
F	13,440 ¹	299	1,602	1.9	61.5	61.5	62.0	0.5
G	14,230 ¹	113	547	5.6	63.8	63.8	63.9	0.1
H	15,400 ¹	110	482	3.3	66.9	66.9	67.8	0.9
I	16,550 ¹	35	207	7.7	77.6	77.6	78.5	0.9
J	17,530 ¹	46	271	5.9	81.9	81.9	82.9	1.0
K	19,000 ¹	31	106	7.7	103.4	103.4	104.0	0.6
L	19,940 ¹	34	120	6.7	114.6	114.6	114.8	0.2
M	21,850 ¹	20	77	10.6	140.6	140.6	141.1	0.5
Naylors Run								
A	5,386 ²	22	306	9.8	103.2	103.2	104.0	0.8
B	9,451 ²	22	170	15.9	120.4	120.4	120.8	0.4
C	15,682 ²	100	580	2.3	169.9	169.9	169.9	0.0
D	22,339 ²	15	108	12.5	230.2	230.2	230.2	0.0

↑
REVISED DATA

¹ Feet above confluence with Delaware River

² Feet above confluence with Cobbs Creek

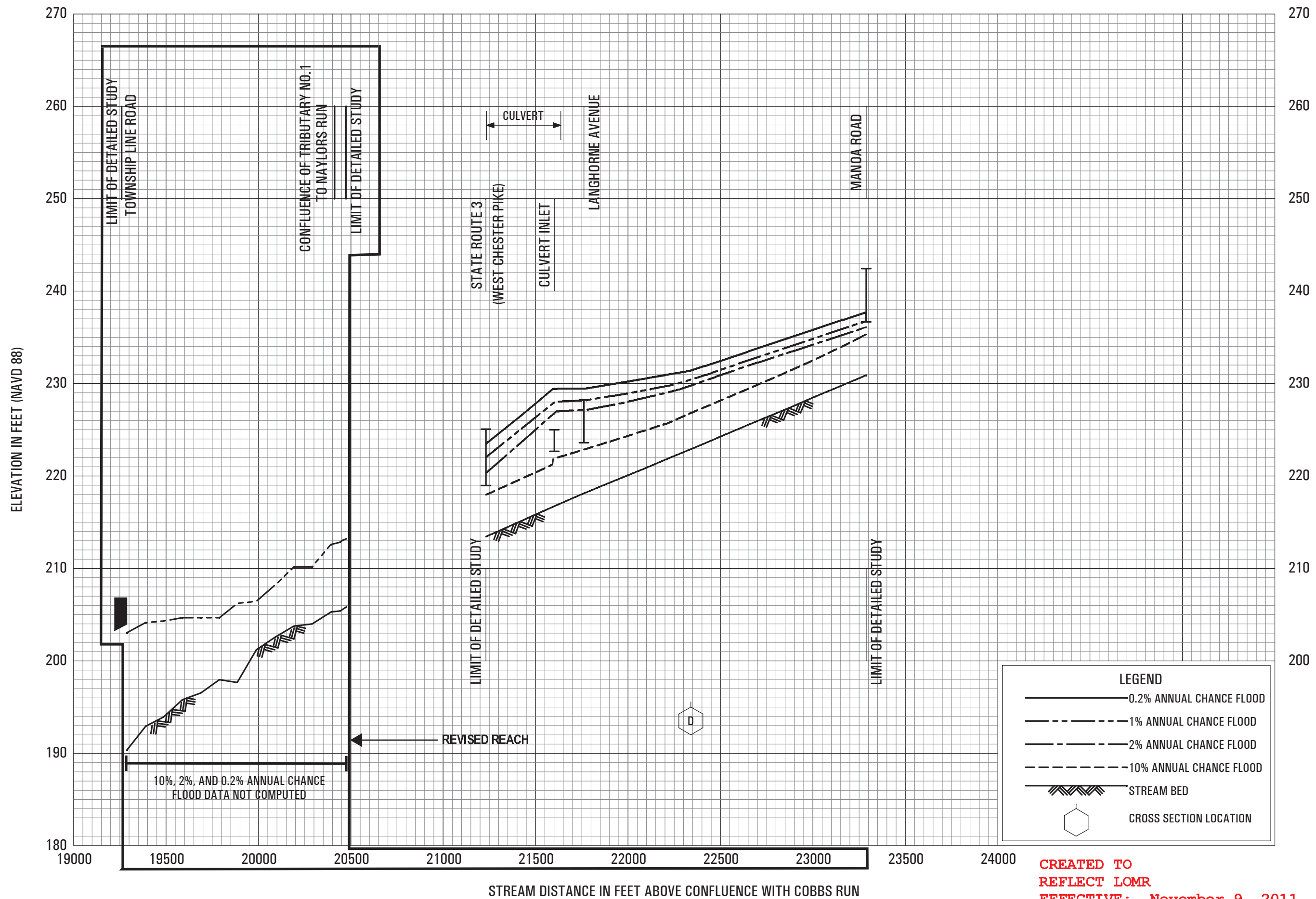
TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

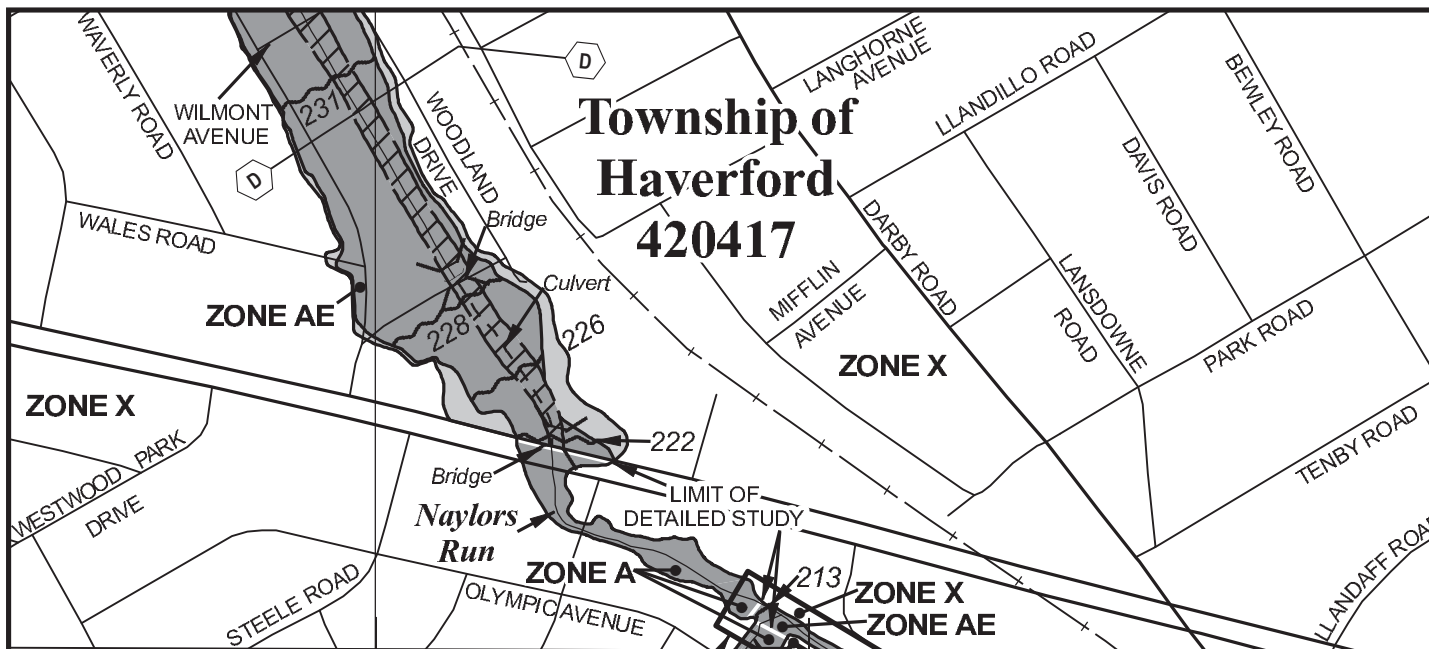
**DELAWARE COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NAAMAN CREEK – NAYLORS RUN



CREATED TO
REFLECT LOMR
EFFECTIVE: November 9, 2011






**REVISED
AREA**

*Tributary No. 1
To Naylor's Run*

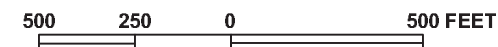
JOINS PANEL 0108

MAP LEGEND

-  1% annual chance (100-Year) Floodplain
-  1% annual chance (100-Year) Floodway
-  0.2% annual chance (500-Year) Floodplain



MAP SCALE 1" = 500'



NFIP

PANEL 0106F

FIRM

FLOOD INSURANCE RATE MAP
DELAWARE COUNTY,
PENNSYLVANIA
ALL JURISDICTIONS

PANEL 106 OF 250

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HAVERFORD, TWP OF	420417	0106	F
UPPER DARBY, TWP OF	420440	0106	F

**REVISED TO
REFLECT LOMR
EFFECTIVE: November 9, 2011**

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MAP NUMBER
42045C0106F

MAP REVISED
NOVEMBER 18, 2009

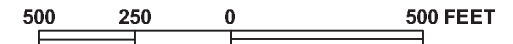
Federal Emergency Management Agency

MAP LEGEND

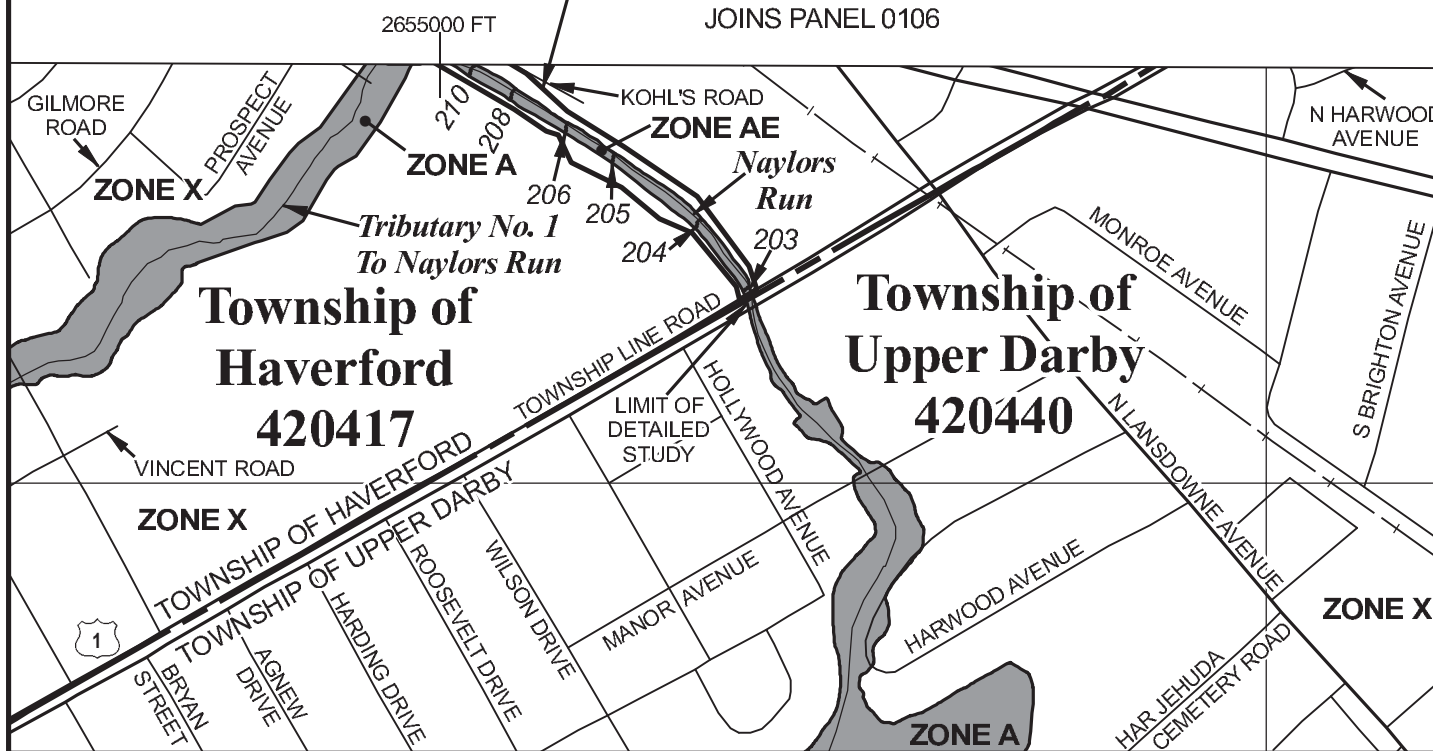
-  1% annual chance (100-Year) Floodplain
-  1% annual chance (100-Year) Floodway
-  0.2% annual chance (500-Year) Floodplain



MAP SCALE 1" = 500'



REVISED AREA



NIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0108F

FIRM

FLOOD INSURANCE RATE MAP
DELAWARE COUNTY,
PENNSYLVANIA
ALL JURISDICTIONS

PANEL 108 OF 250

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HAVERFORD, TWP OF	420417	0108	F
LANSLOWNE, BOR OF	420418	0108	F
SPRINGFIELD, TWP OF	420434	0108	F
UPPER DARBY, TWP OF	420440	0108	F

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